

ABSTRACT OF THE DISCLOSURE

The present invention relates to an optical pointing system and a method for calculating a movement value thereof, comprising: an image sensor for detecting light reflected from a worktable surface to generate an image signal, a maximum search window variable circuit for inputting at least one of the image signal and a movement value to change a size of a maximum search window, and a movement value calculation circuit for calculating the movement value of the image signal using the maximum search window with the changed size. Therefore, an exact movement value can be found by changing at least one of the maximum search window and a sampling rate according to at least one of a quantity of light and a movement speed to calculate the movement value.